



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ryusuke Hasegawa et al. Group Art Unit: 3747  
Serial No.: 09/779,877 Examiner: Hai H. Huynh  
Filed: February 8, 2001  
For: **MAGNETIC CORE-COIL ASSEMBLY FOR**  
**SPARK IGNITION SYSTEMS**  
Old Docket No.: 11872-022001 / 30-4016USRei  
New Docket No.: 0017-28 Rei / 30-4016 US Rei

Morristown, NJ 07960  
November 6, 2002

#10 Recov  
11/18/03  
Jewell

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

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TECHNOLOGY CENTER R3700

AMENDMENT UNDER 37 CFR 1.116

In response to the Office Action dated August 20, 2002, the following remarks are filed.

Claims 1-18 are under consideration.

REMARKS

Applicants' invention, as recited by present claims 1 to 18, provides a magnetic core-coil assembly for a coil-per-plug (CCP) spark ignition transformer. Such CCP spark ignition transformers are suited for use in ignition systems of internal combustion engines. The assembly is capable of rapidly generating a high voltage output from a secondary coil in response to a low voltage excitation of a primary coil. Advantageously, the core-coil assembly of the present invention (i) can repeatedly generate the high voltages required for ignition events in an internal combustion system; (ii) efficiently transfers energy from the coil to the plug; (iii) exhibits very low core loss, thereby enabling it to provide a highly accurate representation of the ignition profile for use in adaptive engine control; and (iv) is

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AMENDMENT TRANSMITTAL LETTER NOV 3 2001				ATTORNEY'S DOCKET NO.: 0017-28 Re / 30-4016 USRei		
SERIAL NUMBER: <b>09/779,877</b>	FILING DATE: February 8, 2001	EXAMINER: Hai H. Huynh		GROUP ART UNIT: 3747		
INVENTION: <b>MAGNETIC CORE-COIL ASSEMBLY FOR SPARK IGNITION SYSTEMS</b>						
INVENTOR(s): Ryusuke Hasegawa et al.						
TO THE ASSISTANT COMMISSIONER FOR PATENTS: Transmitted herewith is an amendment in the above-identified application. The fee has been calculated as shown below.						
<b>CLAIMS AS AMENDED</b>						
(1)	(2) CLAIMS REMAINING AFTER AMENDMENT	(3)	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) NO. OF EXTRA CLAIMS PRESENT	(6) RATE	(7) ADDITIONAL FEE
TOTAL CLAIMS	**18	MINUS	*18	0	X \$18	0.00
INDEP. CLAIMS	**5	MINUS	*5	0	X \$84	0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$ 0.00	
<p>* If the entry in column 2 is less than the entry in column 4, write "0" in column 5.      ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.      *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.</p> <p><input checked="" type="checkbox"/> No additional fee is required.</p> <p><input type="checkbox"/> Charge \$ _____ to Deposit Account No. _____ . A triplicate copy of this sheet is enclosed.</p> <p><input type="checkbox"/> The undersigned petitions for any extension of time for filing this document required under 37 C.F.R. 1.136 and requests that the \$ _____ fee be charged to Deposit Account No. <u>01-1125</u>. A triplicate copy of this sheet is enclosed.</p> <p><input checked="" type="checkbox"/> Charge any additional fees to Deposit Account No. <u>01-1125</u></p>						
November 6, 2002				<b>RECEIVED</b> NOV 18 2002 TECHNOLOGY CENTER 3700		
<p><u>Ernest D. Buff</u> <span style="float: right;">Signature</span>          Attorney Name          (973) 644-0008 <span style="float: right;">Reg. Number 25,833</span>          Phone       </p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on November 6, 2002.</p> <p><u>Ernest D. Buff</u> <span style="float: right;">Signature</span>          Attorney of Record       </p> <p>November 6, 2002 <span style="float: right;">(Date)</span></p>						